Weather INformation Network (WINN)
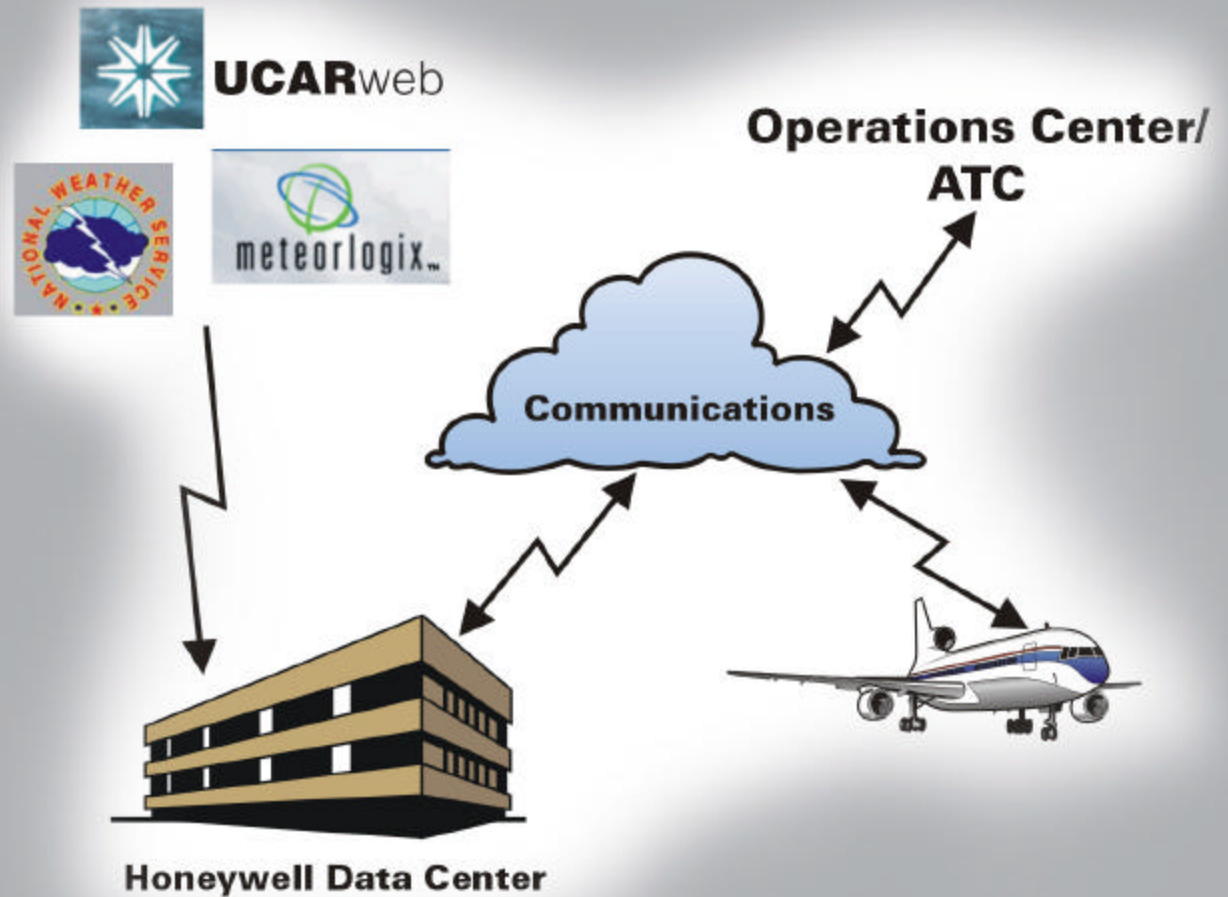
- Put graphical *strategic* weather in airline cockpits
- Deploy a usable system by 2002

Think *inside* the box

Honeywell

- Weather Products - which ones?
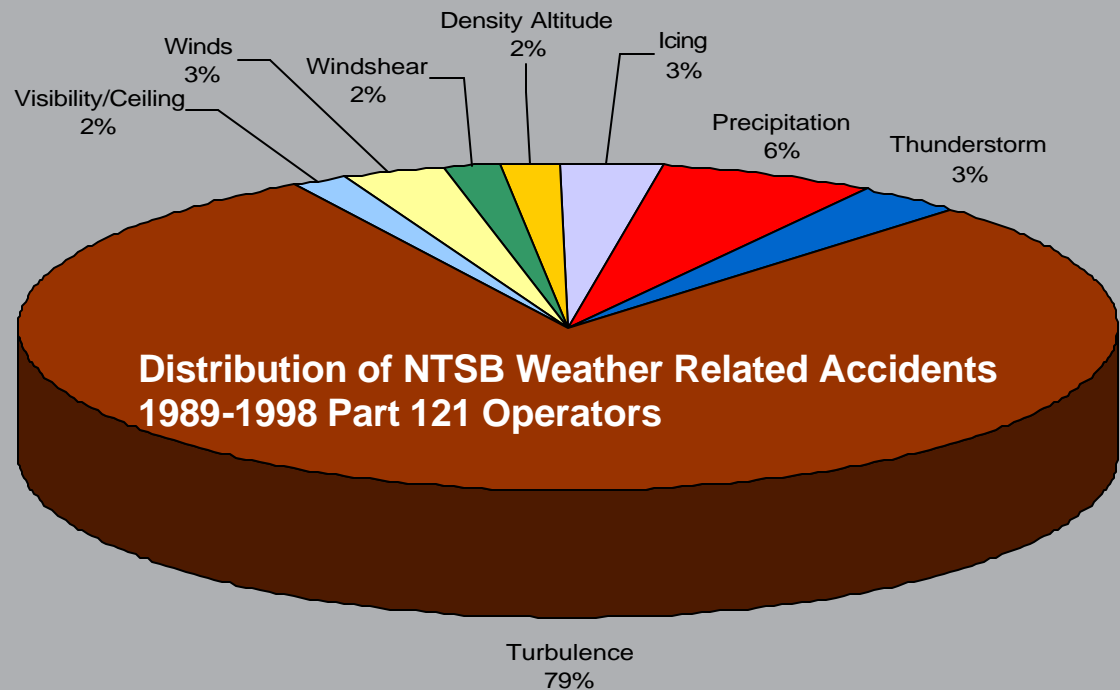- Human Factors/Display
- Data Delivery
- Payback - does safety sell?

Distribution of NTSB Weather Related Accidents 1989-1998 Part 121 Operators

Visibility/Ceiling 2%
Winds 3%
Windshear 2%
Density Altitude 2%
Icing 3%
Precipitation 6%
Thunderstorm 3%
Turbulence 79%

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Weather Products

⇐ Graphical Metars & Sigmets

⇐ Cloud Tops

⇐ Radar (US)

Convection ⇒

⇐ Winds Aloft
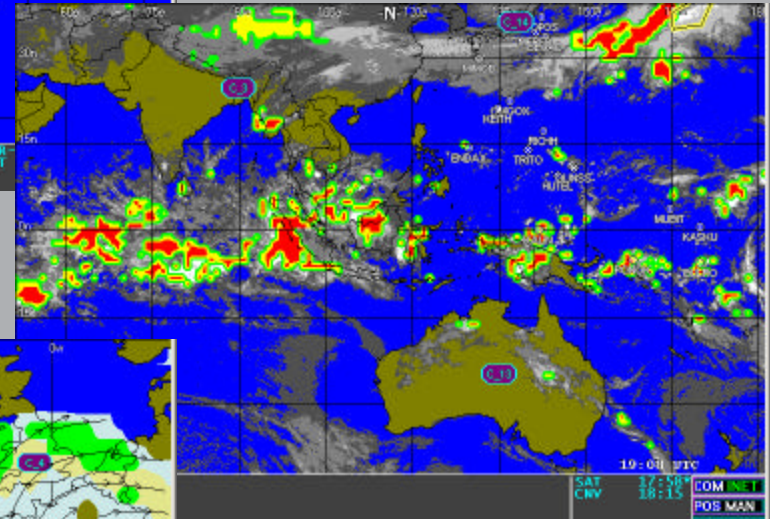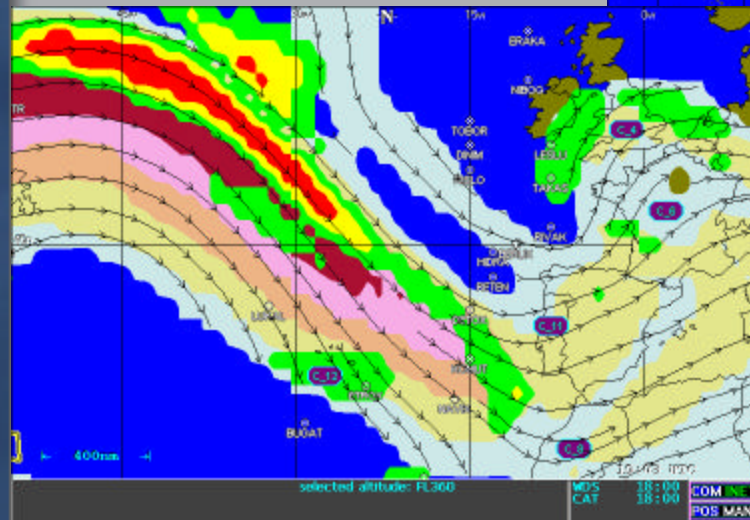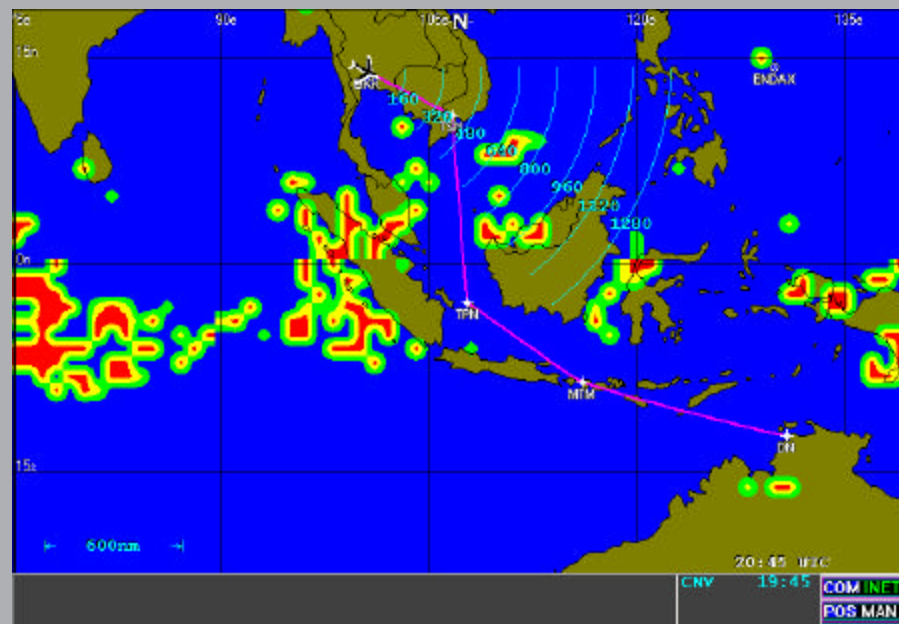
⇐ Clear Air Turbulence

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- Individual product selection
- Text support data
- Colors
- Route
- Profile view
- History loops

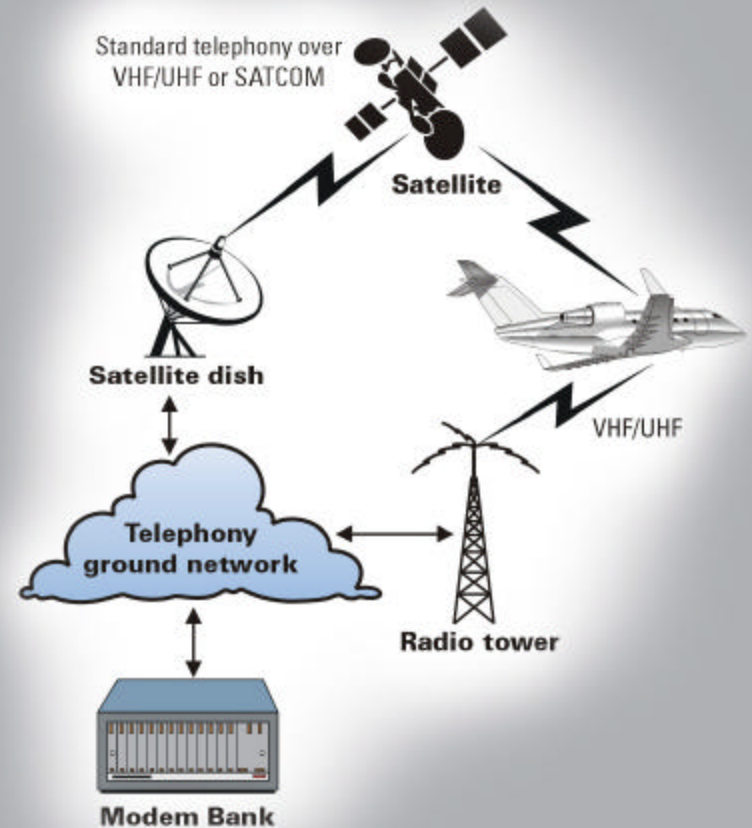## High Glance Value

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Data Delivery

- Existing 2002
  - UHF Telephony
  - Inmarsat SATCOM

- Future
  - Iridium
  - Inmarsat Swift 64
  - Satellite broadcast
  - Others?

Standard telephony over VHF/UHF or SATCOM

Satellite

Satellite dish

VHF/UHF

Telephony ground network

Radio tower

Modem Bank

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What's Ahead

- "Harden" the prototype
  - mature the ground architecture
  - reduce cost, latency
  - ensure reliability
- Adapt to EFB installations
- Communication paths
  - identify new paths
  - get the speed up, cost down

New displays and communications driven by many forces

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